

1154-VU-1532 **Vincent Longo*** (vincent.longo@huskers.unl.edu), NE. *Tunnel Number and Unknotting Numbers of Twist Spun Knots*. Preliminary report.

In 2004, Satoh proved that $b - 1$ is an upper bound for the unknotting number of the twist spin of a classical knot K , where b is the bridge number of K . This bound, however, does not seem to be sharp for many knots. For meridionally primitive knots K , we provide a strict improvement to this upper bound by showing that the tunnel number $t(K)$ is an upper bound for the unknotting number of the twist spin of K . We additionally show that $t(K) + 1$ is an upper bound for any K . (Received September 16, 2019)